

## RECLAIMED WATER PROJECT EXAMPLES

1. King County – Planned Class A reclaimed water satellite facility (2-4MGD) capital cost estimate \$20-30 million Project will replace current and future seasonal irrigation water uses with reclaimed water and protect instream flows. Proposed for Sammamish River area.
  
2. LOTT –(Thurston County)
  - ## Planned 1.0 MGD Class A reclaimed water facility at Budd Inlet reuse site serving Heritage Park and potentially the capitol campus. Estimated capital cost \$4 million.
  
  - ## Planned Satellite facility - 1.0 MGD. Class A reclaimed water proposed for Hawks Prairie area to meet future water and wastewater planning requirements including protection of Budd Inlet from additional wastewater discharge and offsetting seasonal irrigation water demands. Water will be available for groundwater recharge as well as irrigation uses. Estimated project cost is \$27 million.
  
3. Pullman/WSU (Whitman County) – Planned 2.0 MGD Class A reclaimed water facility to reduce the current demand for potable water from the Palouse Basin Grande Ronde Aquifer by developing an alternative source of water for municipal irrigation on WSU campus and within the City of Pullman. Total project cost is estimated at around \$7 million with the initial phase at \$4.6 million.
  
4. Cascadia- Orting –(Pierce County) Planned 0.5 – 1.0 MGD seasonal Class A reclaimed water use for golf course and landscape irrigation at 4720 acre employment-based planned community in Pierce County. Project will offset water supply needs for this community as well as remove wastewater discharge from the Puyallup River during the summertime TMDL season. Total capital cost for wastewater treatment is approximately \$20 million for 4 MGD facility. The additional treatment to meet water reclamation portion of the project is estimated at about \$4 million. Costs do not include the Cascadia distribution costs which are developer financed.
  
5. City of Walla Walla (Walla Walla County) – 9.6 MGD facility is required to upgrade to produce Class A reclaimed water for wastewater currently used for food crop irrigation per 1927 agreement with irrigation district. Compliance deadline for completing upgrades is 2008. Cost information not available.

6. Cowlitz Regional (Cowlitz County) – 2.3 MGD planned Class A reclaimed water for cooling water and Enron's proposed Longview Energy Development (LED)co-generation plant. Capital cost estimate of \$9.2 million. Costs will be paid by LED.
7. City of Quincy – (Grant County) Upgrade1.54 MGD facility to produce Class A reclaimed water for ground water recharge via surface percolation basins. Currently under construction. Total cost of construction is approximately \$2.1 million. Advanced treatment cost to produce reclaimed water is \$ 0.6 million.
8. North Bay/Case Inlet. (Mason County) – Facility recently completed construction of a 0.4 MGD Class A reclaimed water for land application on forest land and groundwater recharge. This is an area that was formerly on on-site systems that were failing and affecting shellfish areas. Capital cost for wastewater treatment and water reclamation was \$5.3 million. Total project including collection system is \$21 million. The project was funded through a combination of grants and loans.
9. Spokane County. The county is considering reclaimed water feasibility in the siting of a new wastewater treatment facility.(10-22 MGD) It would be advantageous to site the facility near areas where reclaimed water could be beneficially used to reduce distribution system costs. The potential reclaimed water customers were interested, but only if the county could make it less expensive than it costs them to pump water out of the ground. This will likely go as a small demonstration effort for reclaimed water with wastewater disposal to the Spokane River as the main option.